R-002-208.15

3589

TREATMENT OF PLANT 6 MOTOR BAY SUMP WATER IN THE PLANT 8 VOLATILE ORGANIC COMPOUND (VOC) TREATMENT SYSTEM

07/31/92

DOE-2234-92
DOE-FN/EPA
3
LETTER
OU5

Department of Energy
Fernald Environmental Management Project
P.O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 738-6357

3589

JUL 3 1 1992

DOE-2234-92

Mr. James A. Saric, Remedial Project Director
United States Environmental Protection Agency
Region V - HRE-8J
77 West Jackson Street
Chicago, Illinois 60604-3590

Mr. Graham E. Mitchell, Project Manager
Ohio Environmental Protection Agency
40 South Main Street
Dayton, Ohio 45402-2086

Dear Mr. Saric and Mr. Mitchell:

TREATMENT OF PLANT 6 MOTOR BAY SUMP WATER IN THE PLANT 8 VOLATILE ORGANIC COMPOUND (VOC) TREATMENT SYSTEM

The purpose of this letter is to formally request concurrence from the United States Environmental Protection Agency (U.S. EPA) and the Ohio Environmental Protection Agency (OEPA) to treat the waters accumulating within the Plant 6 Motor Bay Sumps in the Plant 8 Volatile Organic Compound (VOC) treatment system. This plan of action has been discussed verbally with the OEPA.

The water accumulating within the four motor bay sumps is similar to the water currently being treated from the Plant 6 perched groundwater extraction wells. The four motor bay sumps discharged directly to the storm sewer system adjacent to Plant 6 until volatile compounds were discovered in them.

The attached table presents a summary and comparison of the results of analyses performed on waters collected from the motor bay sumps and from the extraction wells in Plant 6. Based on review of the contaminants, it has been determined that the Plant 8 VOC treatment system will adequately treat the motor bay sump waters.

The waters from the motor bay sumps are currently being pumped to drums and stored in temporarily diked areas. Due to the large amounts of rainfall, the amount of water accumulating in the motor bay sumps has recently increased. This increased rate of water accumulation makes drummed storage less and less practical. Therefore, your written concurrence in a timely manner will be greatly appreciated.

1

AUG 5 1992

The removal action work plan for Plant 6 will be modified to include the treatment of the waters accumulating within the four motor bay sumps in the Plant 8 VOC Treatment System.

Sincerely,

for R. E. Tiller
Manager

FN:Yerace

Enclosure: As Stated

cc w/enc.:

J. J. Fiore, EM-42, TREV
K. A. Hayes, EM-424, TREV
J. Benetti, USEPA-V, AT-18J
M. Butler, USEPA-V, 5CS-TUB-3
J. Kwasniewski, OEPA-Columbus
P. Harris, OEPA-Dayton
M. Proffitt, OEPA-Dayton
T. Schneider, OEPA-Dayton
T. W. Hahne, PRC
L. August, GeoTrans
R. L. Glenn, Parsons
D. J. Carr, WEMCO
L. S. Farmer, WEMCO
J. P. Hopper, WEMCO
J. D. Wood, ASI/IT
J. E. Razor, ASI/IT
AR Coordinator, WEMCO

SUMMARY AND COMPARISON – RANGE OF ANALYTICAL RESULTS
PLANT 6 MOTOR BAY SUMP WATER / PLANT 6 PERCHED WATER

PLANT 6 MOTOR BAY SUMP WATER ANALYSIS PERFORMED: –TCLP Metals –TCLP Semi–Volatiles & Volatiles	PLANT 6 PERCHED WATER ANALYSIS PERFORMED: –Full HSL
Detected Analytes:	Detected Analytes:
VOLATILES	VOLATILES
Toluene: 5–78	Toluene: 8–15
TCA: 37–1,600	TCA: 10–48
	TCE: 880–2400
	1,1 Dichloroethene: 5–15
	1,1 Dichloroethane: 6,8
	1,2 Dichloroethene(total): 9–31
	1,2 Dichloroethane: 6–11
	Tetrachloroethene: 15–43
SEMI–VOLATILES	SEMI–VOLATILES
ND	ND
METALS	METALS*
Arsenic: ND	Arsenic: 2.2,2.4
Barium: 19–626	Barium: 586–984
Cadmium: ND	Cadmium: 123–210
Chromium: ND	Chromium: 2210–4098
Lead: 7, 19.3	Lead: 4.3–40.8
Mercury: ND	Mercury: ND
Selenium: ND	Selenium: ND
Silver: ND	Silver: 1240–2248

LEGEND
TCA= 1,1,1 Trichloroethane
TCE= Trichloroethene
ND= not detected
All results reported in parts per billion
* All HSL metals detected not listed

3560

JDG7/15/92